

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/050330

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H03F1/34 H03F1/14 H03F1/32 H03F1/08 H03F3/45
H03F3/60

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 211 738 B1 (HECHT JAMES BURR) 3 April 2001 (2001-04-03) cited in the application column 4, line 44 - column 5, line 23; figure 3	1-19
Y	EP 1 202 446 A (MATSUSHITA ELECTRIC IND CO LTD) 2 May 2002 (2002-05-02) column 4, line 11 - column 6, line 56; figures 1,2	1-19
A	US 6 172 563 B1 (TRASK CHRISTOPHER) 9 January 2001 (2001-01-09) column 6, line 44 - column 7, line 42; figure 6	1-19
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

14 June 2004

Date of mailing of the international search report

24/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Fedi, G

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/050330

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/135427 A1 (YOKOTA YASUHIRO) 26 September 2002 (2002-09-26) page 2, left-hand column, lines 9-32; figures 12,13 -----	1-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/050330

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6211738	B1	03-04-2001	US 2001019290 A1	06-09-2001
EP 1202446	A	02-05-2002	EP 1202446 A2	02-05-2002
			JP 2002204131 A	19-07-2002
			US 2002067211 A1	06-06-2002
US 6172563	B1	09-01-2001	NONE	
US 2002135427	A1	26-09-2002	WO 0126217 A1	12-04-2001